

## 3300 and 7200 Proximity Transducers have increased resistance to moisture

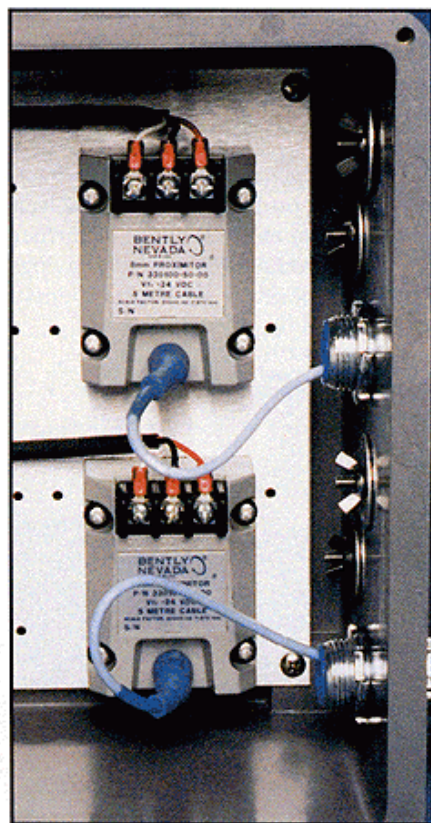
**B**ently Nevada proximity transducers are operating reliably in thousands of installations worldwide. They have proven their worth by providing numerous machine "saves" and by reducing unscheduled downtime on critical rotating machinery through early warning of impending problems. The results have been increased plant safety and efficiency, reduced costs, and in many cases, better product quality.

We are continually looking for ways to improve our transducer systems based on customer suggestions and our own laboratory research. Extensive research and failure analysis indicated that proximity transducer systems were needed to better resist moisture. Therefore, we have incorporated design and manufacturing improvements into our 3300 and 7200 Proximity Transducers that allow them to seal out moisture in nonsubmerged applications. 3300 and 7200 Proximity Transducer Systems are now specified for:

- **Relative Humidity:** To 100%, condensing, nonsubmerged (with protection of coaxial connector).

### Installing proximity transducers

Our eddy-current proximity sensors are designed and built to be mounted on rotating machinery which often includes hostile environments. To get the full benefit from their ruggedness, proximity sensors must be installed according to specific standards.



*Proximity transducers mounted in a weatherproof housing with blue Connector Protectors installed.*

- Proximity probe mounting is accomplished by an internal mounting bracket or an external housing with a sleeve that extends inward toward the shaft surface. The ruggedized design of the 3300 probe has made this installation easier and more reliable.

- Extension cables are then run back through conduit to the Proximity<sup>®</sup> housing mounted on the machine deck. This is usually a distance of 5 or 9 metres (16 or 30 feet).
- Inside the housing, extension cables connect to Proximity for each probe on the machine. Proximity are mounted using screws provided with the housing. Fiberglass isolation plates are provided for 7200 Proximity.

With the introduction of the new environmental capabilities of the Proximity<sup>®</sup>, the most likely point of moisture ingress is now through the coaxial connector. Bently Nevada offers an environmental boot called a Connector Protector to cover this connection in harsh environments. It is recommended that a Connector Protector be installed to keep inadvertent water contamination away from the connector when the housing is open for service. If Connector Protectors are not available at the jobsite, a silicone-based RTV, such as Dow Corning 3145, can also be applied completely over the coaxial connection to seal out moisture.

When a Connector Protector or RTV is used as stated above, the improved transducer system meets the new 100% relative humidity specification in non-submerged applications. For more information request our Transducer Systems Catalog or contact your nearest Bently Nevada sales or service representative. ■